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B-1 SYSTEMS APPROACH TO TRAINING
TECHNICAL MEMORANDUM SAT-1

FINAL REPORT
VOLUME 3

APPENDIX B: BIBLIOGRAPHY AND DATA COLLECTION TRIPS
JULY 1975

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CALSPAN REPORT
FE-5558-N-1 ✓

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PREFACE

This document is one of several technical memoranda which have been delivered to the B-1 Systems Project Office (B-1 SPO) in performance of the Systems Approach to Training (SAT) Task under Contract Number F33657-75-C-0021. Each of the separate SAT documents is listed below. Additional copies may be requested from: B-1 Systems Project Office, Data Configuration Division, Wright-Patterson Air Force Base, Ohio.

| <u>Technical Memoranda</u> | <u>Number</u> | <u>Author(s)</u> | <u>Date</u> |
|-----------------------------------------------------------------------------------------------------|-------------------------|------------------------------------------------|-------------|
| B-1 Systems Approach to Training, Final Report. | SAT- 1 Vol. 1 | R. Sugarman S. Johnson W. Ring | July 1975 |
| B-1 Systems Approach to Training, Final Report. Appendix A: Cost Details. | SAT- 1 Vol. 2 | H. Reif W. Ring | July 1975 |
| B-1 Systems Approach to Training, Final Report. Appendix B: Bibliography and Data Collection Trips. | SAT- 1 Vol. 3 | A. Blair | July 1975 |
| Behavioral Objectives for the Pilot, Copilot, and Offensive Systems Operator. | SAT- 2 Vol. 1 & 2 | J. Mitchell W. Hinton S. Johnson | July 1975 |
| Simulation Technology Assessment Report (STAR). <i>BoD, 896</i> | SAT- 3 | S. Johnson J. Knight R. Sugarman | July 1975 |
| Sorting Model for B-1 Aircrew Training Data. User's and Programmer's Guide. | SAT- 4 | J. Menig T. Ranney | July 1975 |
| Training Resources Analytic Model (TRAM). User's Manual. | SAT- 5 | W. Ring G. Gaidasz J. Menig W. Stortz | July 1975 |
| Training Resources Analytic Model (TRAM). Programmer's Manual. | SAT- 6 | W. Ring G. Gaidasz J. Menig | July 1975 |
| Task Analysis Listings. | SAT- 7 | J. Mitchell T. Ranney | July 1975 |
| Control/Display Catalog and Action Verb Thesaurus. | SAT- 8 | T. Ranney A. Blair | July 1975 |

BIBLIOGRAPHY AND DATA COLLECTION TRIPS

Anndrea J. Blair

INTRODUCTION AND SUMMARY

This Appendix consists of two bibliographies and a listing of significant technical meetings for B-1 SAT data collection. The first bibliography lists resources used in the preparation of the Simulation Technology Assessment Report (STAR), Technical Memorandum SAT-3. The second bibliography is a list of source material compiled in the Calspan SAT library which was not referenced in the STAR. The listing of technical meetings is compiled in chronological order, and indicates participants other than Calspan personnel.

JULY 1975
SAT-1
VOL. 3

TABLE OF CONTENTS

| | <u>PAGE</u> |
|-------------------------------------|-------------|
| STAR Bibliography | 1 |
| SAT Library Bibliography | 30 |
| Listing of Technical Meetings | 60 |

STAR
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LISTING OF TECHNICAL MEETINGS FOR B-1 SAT DATA COLLECTION

| DATE | SUBJECT/PURPOSE | PARTICIPANTS | LOCATION |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4/19/74 | INVESTIGATE AMERICAN AIRLINES FLIGHT TRAINING SYSTEM FOR COMMERCIAL FLIGHT CREWS | MR. G. WYNN | AMERICAN AIRLINES FLIGHT ACADEMY, FORTH WORTH, TX |
| 5/30/74 | REVIEW PAST, CURRENT & FUTURE INSTRUCTIONAL SYSTEM DEVELOPMENT (ISO) | MR. E. RILEY LCDR M. OUITIQUIT | CNET, PENSACOLA, FL |
| 5/31/74 | REVIEW PAST, CURRENT & FUTURE INSTRUCTIONAL SYSTEM DEVELOPMENT (ISD) WITH REPRESENTATIVES OF HUMAN FACTORS LABORATORY, TRAINING ANALYSIS AND EVALUATION GROUP, AND NAVAIRSYSCOM | LCDR P. CHATELIER J. DUVA H. OKRASKI G. HALL A. SMODE J. PUIG R. BROWNING R. BIRD W. BONEY | NTEC, ORLANDO, FL |
| 6/20/74 | INSPECT FB-111 CCTS | LT. COL. CHRISTIANSEN SGT. PORTER CAPT. BREEN CAPT. HAYDEN MAJ. WOLFE MAJ. WACHSMUTH | PLATTSBURGH AFB, NY |
| 7/25 - 8/2/74 | GATHER INSTRUCTIONAL SYSTEM DEVELOPMENT INFORMATION | MR. R. FLEXMAN DR. S. ROSCOE MR. G. BEUTLER MR. D. SEAY MR. M. SAINGER DR. P. CARPENTER MR. R. PYLES | AVIATION LABORATORY UNIVERSITY OF ILLINOIS, UNITED AIRLINES TRAINING FACILITY, DENVER, CO BOEING CO., SEATTLE, WA ROCKWELL INT'L CORP. LOS ANGELES, CA RAND CORP., SANTA MONICA, CA |
| 9/11-12/74 | GATHER INFORMATION RELEVANT TO THE INCOMING SKILLS AND KNOWLEDGES AND SIMULATION FROM FB-111 CCTS. | MAJ. G. DART (SAC) CAPT. J. BREEN (SAC) MAJ. G. DIETRICH (SAC) COL. G. HECKER (SAC) | PLATTSBURGH AFB, NY |
| 10/9/74 | ATTEND BRIEFING ON FORWARD LOOKING INFRARED SIMULATION | MR. W. FOLEY (AFHRL) | WPAFB, OH |
| 10/10/74 | OBTAIN INFORMATION RELEVANT TO TRAINING DEVICES | MR. J. MILAZZO | TRAINER CORPORATION OF AMERICA, BUFFALO, NY |
| 10/11/74 | OBTAIN INFORMATION ABOUT THE FB-111 CCTS AND SIMULATION FACILITY | LT. COL. E. CHRISTIANSEN (SAC) MAJ. W. WACHSMUTH (SAC) MAJ. W. HOSTETTER (SAC) | PLATTSBURGH AFB, NY |
| 10/30-31/74 | ATTENDED ATC TRAINING CONFERENCE | DR. M. ROCKWAY (AFHRL) | SHEPARD AFB, TX |
| 11/6/74 | OBTAIN INFORMATION RELEVANT TO INCOMING SKILLS/KNOWLEDGES FROM UNDERGRADUATE PILOT TRAINING (UPT) | MAJ. HARRIS (ATC) | RANDOLPH AFB, TX |
| 11/7/74 | OBTAIN INFORMATION RELEVANT TO INCOMING SKILLS/KNOWLEDGES FROM UNDERGRADUATE NAVIGATOR TRAINING (UNT) | LT. COL. G.W. ENGEL, JR. (ATC) | RANDOLPH AFB, TX |
| 11/13-14/74 | ANNUAL PROGRAM REVIEW | DR. S.N. ROSCOE | AVIATION RESEARCH LABORATORY, UNIVERSITY OF ILLINOIS, CHAMPAIGN, IL |

LISTING OF TECHNICAL MEETINGS FOR B-1 SAT DATA COLLECTION (Continued)

| DATE | SUBJECT/PURPOSE | PARTICIPANTS | LOCATION |
|-----------|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| 11/18/74 | GATHER INFORMATION RELEVANT TO SIMULATION | DR. W.M. BUNKER | GENERAL ELECTRIC CO. DAYTONA BEACH, FL |
| 12/5/74 | OBTAIN INFORMATION RELEVANT TO STATE-OF-THE-ART IN VISUAL SIMULATION | MR. R. HOUSTON MR. G. WYNN | AMERICAN AIRLINES FLIGHT ACADEMY, FORT WORTH, TX |
| 12/4-5/74 | OBTAIN INFORMATION ABOUT THE B-52 D/F CCTS | LT. COL. J. COOLIDGE (SAC) | BARKSDALE AFB, LA |
| 12/6/74 | DISCUSSION OF INSTRUCTIONAL SYSTEM DESIGN PROCEDURES AND RELATIONSHIP BETWEEN B-1 AIR-CREW AND MAINTENANCE TRAINING | COL. A.G. KENDRICK COL. S. SHRUM LT. COL. JOCHEN LT. COL. C. WALDEN LT. COL. S. HESS MAJ. L. WOOD MSGT. R. MOON MR. E. MOORE | RANDOLPH AIR FORCE BASE, TX |
| 12/13/74 | OBTAIN INFORMATION RELEVANT TO THE SIMULATION TECHNOLOGY REPORT FROM AF SIMULATOR SPO AND ASD | MR. R. SWAB MR. D. GIBINO | WPAFB, OH |
| 12/16/74 | OBTAIN INFORMATION RELEVANT TO FB-111 NAVIGATOR TRAINING | LT. COL. D. HERING (YHS/BOEING) | WPAFB, OH |
| 12/16/74 | OBTAIN INFORMATION ABOUT B-52 ISD | DR. J. SKEEN | HUGHES AIRCRAFT HAWTHORNE, CA |
| 12/17/74 | OBTAIN INFORMATION ABOUT PRESENT B-52 CCTS | CAPT. SWIHARA | CASTLE AFB, CA |
| 12/18/74 | OBTAIN INFORMATION ABOUT TRAINING DEVICES FROM UNT, NBT, AND EWO | LT. COL. R. THOMPSON COL. O. McCURTAN | MATHER AFB, CA |
| 12/18/74 | OBTAIN INFORMATION RELEVANT TO ELECTRONIC WARFARE TRAINING | MR. D. REEVES (YHS) | WPAFB, OH |
| 12/19/74 | OBTAIN INFORMATION RELEVANT TO THE SIMULATION TECHNOLOGY REPORT | MR. DUSTERBERRY | NASA-AMES MOUNTAIN VIEW, CA |
| 1/8/75 | DISCUSS SIMULATION STATE-OF-THE-ART | MR. A. DOTY (ASD/ENCT) | WPAFB, OH |
| 1/16/75 | OBTAIN INFORMATION ABOUT SIMULATION | LT. COL. W. BLACK (PENTAGON) | WASHINGTON, DC |
| 1/20/75 | ATTEND WORKSHOP ON SIMULATION SPONSORED BY FDL, AFOSR, HRL AND AMRL | MR. B. CREAM (AFHRL) DR. C. HUTCHINSON (AFOSR) DR. W. HAGEN (AFHRL) | WPAFB, OH |
| 1/28/75 | DISCUSS STATE-OF-THE-ART IN SIMULATION | MR. R. TAYLOR (SINGER) MR. D. ADZIGIAN (SINGER) MR. R. GREENLY (SINGER) | CALSPAN, BUFFALO, NY |
| 1/13/75 | DISCUSS MEDIA SELECTION CONSIDERATIONS | DR. E. SMITH (AFHRL) | LOWRY AFB, CO |
| 2/18/75 | REVIEW ADVANCED INSTRUCTIONAL SYSTEM (AIS) DATA AND PROCEDURES | DR. E.A. SMITH MAJ. R. GROSSEL | LOWRY AFB, CO |

LISTING OF TECHNICAL MEETINGS FOR B-1 SAT DATA COLLECTION (Continued)

| DATE | SUBJECT/PURPOSE | PARTICIPANTS | LOCATION |
|---------|---------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| 2/20/75 | DISCUSS SIMULATION REQUIREMENTS | LT. COL. W.H. WITTEKIND MAJ. E.E. CURBOW | U.S. ARMY AVIATION CENTER FT. RUCKER, AL |
| 2/21/75 | DISCUSS SIMULATION REQUIREMENTS WITH COAST GUARD, AVIATION TRAINING | MR. H.K. POVENMIRE | BATES FIELD, MOBILE, AL |
| 3/5/75 | DISCUSS CONCEPTS FOR SYSTEMS OPERATORS SIMULATION REQUIREMENTS | MR. J. MATAVA | BOEING CO. SEATTLE, WA |
| 3/25/75 | OBTAIN INFORMATION ON SIMULATOR PROCUREMENT | MR. C. CASCARDO MR. J. ALLEN MR. J. HENDERSEN | WPAFB, OH |
| 4/2/75 | OBTAIN INFORMATION RELEVANT TO RESEARCH ON SIMULATION FOR TRAINING | DR. W. HAGIN (AFHRL) | WILLIAMS AFB, AZ |
| 4/3/75 | TO DISCUSS SIMULATION FOR AIRCREW TRAINING | CMDR. R. KING | NAS, SAN DIEGO, CA |
| 4/18/75 | DISCUSSING STATE-OF-THE-ART IN SIMULATION | MR. D. PIPKIN (ASD/ENCT) MR. D. SHUMWAY (ASD/ENCT) MR. J. NEFF (ASD/ENCT) MR. P. BABEL (ASD/ENCT) | WPAFB, OH |
| 4/18/75 | DISCUSSING TRAINING DEVICE REQUIREMENTS | MR. B. CREAM (AFHRL) DR. G. KLEIN (AFHRL) MR. A. GILL (AFHRL) | WPAFB, OH |
| 4/25/75 | VERIFY ASSUMPTIONS WITH SAC INSTRUCTOR PERSONNEL | MAJ. W. HOSTETTER MAJ. W. WACHSMUTH | PLATTSBURGH AFB, NY |
| 5/19/75 | DISCUSS SOFTWARE SUPPORT CAPABILITY | LT. COL. J. CANADAY MAJ. C. BUCKENMAIER MAJ. J. DEMUTH MR. P. BABEL | WPAFB, OH |
| 5/28/75 | DISCUSS TRAINING COURSE SEQUENCES | MAJ. HOSTETTER CAPT. J. BRISBY | PLATTSBURGH AFB, NY |
| 7/24/75 | DISCUSS DATA COLLECTION TECHNIQUES | MR. B. CREAM (AFHRL) DR. G. KLEIN (AFHRL) DR. T. EGGEMEIER (AFHRL) | WPAFB, OH |